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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/669,279	09/23/2003	Essam T. Awdalla	1394-002	6578
4678	7590	02/18/2005	EXAMINER	
MACCORD MASON PLLC 300 N. GREENE STREET, SUITE 1600 P. O. BOX 2974 GREENSBORO, NC 27402			TRIEU, THAI BA	
			ART UNIT	PAPER NUMBER
			3748	

DATE MAILED: 02/18/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/669,279	Applicant(s) AWDALLA, ESSAM T.	
	Examiner Thai-Ba Trieu	Art Unit 3748	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☒ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1 and 2 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1 and 2 is/are allowed.
- 6) ☐ Claim(s) ____ is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>09/23/2003</u> . | 6) <input type="checkbox"/> Other: ____. |

Art Unit: 3748

DETAILED ACTION

This application is in condition for allowance except for the following formal matters:

1. IN THE DRAWING:

The reference character “23” has been used to designate both “*exhaust gas coming out of the turbine 15*” and “*a controlled valve in the side passage 24*” (See Figure 1). Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement-drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either “Replacement Sheet” or “New Sheet” pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action.

2. IN THE ABSTRACT:

Since the abstract is too long, applicant is required to submit a substitute abstract to meet the requirement set forth below:

Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet **within the range of 50 to 150 words**. It is important that the abstract not exceed 150 words in length since the space

Art Unit: 3748

provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

3. IN THE SPECIFICATION:

The disclosure is objected to because of the following informalities:

- On Page 2, lines 13-14, the serial number of the US Patent Application should be provided and inserted after "serial no.---".
- On Page 10, line 31, "**controlled valve (1)**" should be replaced by -- **controlled valve (81)** -- (for correcting typo error).

Appropriate correction is required.

4. IN THE CLAIM :

1. Appropriate correction for minor informalities in claims 1-2 is suggested as following:

Lines 5-7 should be replaced by following a or b options for correcting grammatical sentence structure:

- a. -- a supercharger for supercharging intake air of the core engine,

Art Unit: 3748

wherein said supercharger includes a rotary ram-in compressor and a turbine, and

wherein said turbine has variable-area nozzle assembly and is driven by gases discharged from the core engine; -- .

b. -- a supercharger for supercharging intake air of the core engine, said supercharger including a rotary ram-in compressor and a turbine, and said turbine having variable-area nozzle assembly and being driven by gases discharged from the core engine; -- .

2. In claims 1-2, line 3, “***the first stage of which***” should be replaced by -- **a first stage of the multi-stage compressor** -- (*for avoiding rejection of 112, second paragraph*).

3. In claims 1-2, line 8, the recitation of “***elective bleeding variable part of the gases***” should be replaced by – **elective partial bleeding of the gases** – (*for avoiding rejection of 112, second paragraph and for consistency with the specification*).

4. Claims 1-2, line 3, “***the first stage***” should be replaced by – **a first stage**-- (*for avoiding insufficient antecedent basis for this limitation in the claim*).

Art Unit: 3748

Conclusion

The IDS (PTO-1449) filed on September 23, 2003 has been considered.

An initialized copy is attached hereto.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- Sugitani (Pub. Number US 2001/0045088 A1) discloses a surge detection system of gas turbine aero-engine.
- Leonard et al. (US Patent Number 6,050,082) disclose inter-cooled gas turbine engine with integral air bottoming cycle.
- Lenertz (US Patent Number 5,596,871) discloses deceleration fuel control system for a turbine engine.
- Peterson et al. (US Patent Number 4,522,026) disclose power/torque limiter unit for free turbine engines.
- Klees (US Patent Number 4,435,958) discloses a turbine bypass turbo fan with mid-turbine re-ingestion and method of operating the same.
- Tooth (US Patent Number 4,128,995) discloses a method and apparatus for stabilizing an augments system.
- Avery (US Patent Number 4,087,961) discloses fuel control system for gas turbine engine operated on gaseous fuel.
- Hagen (US Patent Number 3,777,479) discloses a control system for gas turbine engines.

Art Unit: 3748

- Harrison et al. (US Patent Number 3,727,400) discloses a gas turbine air compressor and control therefore.

- Grieb (US Patent Number 3,659,417) discloses a gas turbine unit for generating mechanical energy and compressed air.

- Coleman et al. (US Patent Number 3,646,753) disclose an engine compressor bleed control system.

- Kumakura (Patent Number JP 63 201328 A) discloses a gas turbine control device.

Prosecution on the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thai-Ba Trieu whose telephone number is (571) 272-4867. The examiner can normally be reached on Monday - Thursday (6:30-5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas E. Denion can be reached on (571) 272-4859. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

Art Unit: 3748

Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TTB
February 16, 2005



Thai-Ba Trieu
Primary Examiner
Art Unit 3748